

Vitezslav Zima

List of Publications by Year in descending order

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103
papers

1,821
citations

304602

22
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315616

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104
all docs

104
docs citations

104
times ranked

1636
citing authors

#	ARTICLE	IF	CITATIONS
1	Syntheses and Structures of Organically Templated Iron Phosphates. <i>Chemistry of Materials</i> , 1998, 10, 2599-2609.	3.2	207
2	Selective oxidation of 5-hydroxymethyl-2-furaldehyde to furan-2,5-dicarboxaldehyde by catalytic systems based on vanadyl phosphate. <i>Applied Catalysis A: General</i> , 2005, 289, 197-204.	2.2	161
3	Supramolecular Assembly of Calcium Metal-Organic Frameworks with Structural Transformations. <i>Crystal Growth and Design</i> , 2011, 11, 699-708.	1.4	90
4	Preparation and Probable Structure of Layered Complexes of Vanadyl Phosphate with 1-Alkanols and 1,1'-Alkanediols. <i>Inorganic Chemistry</i> , 1997, 36, 2850-2854.	1.9	63
5	Two New Mixed-Valence Iron Phosphates Templated by Piperazine: $(C_4H_{12}N_2)[Fe_4(OH)_2(HPO_4)_5]$ and $(C_4H_{11}N_2)_0.5[Fe_3(HPO_4)_2(PO_4)(H_2O)]$. <i>Chemistry of Materials</i> , 1998, 10, 1914-1920.	3.2	57
6	Vanadyl Phosphate and Its Intercalation Reactions. A Review. <i>Collection of Czechoslovak Chemical Communications</i> , 1998, 63, 1-19.	1.0	52
7	Synthesis and Characterization of New Calcium Phenylphosphonates and 4-Carboxyphenylphosphonates. <i>Inorganic Chemistry</i> , 2005, 44, 9968-9976.	1.9	51
8	Synthesis and characterization of new zirconium 4-sulfophenylphosphonates. <i>Solid State Ionics</i> , 2010, 181, 705-713.	1.3	43
9	Intercalation of Poly(oxyethylene) Compounds into the $MOXO_4$ ($M = V, Nb; X = P, As$) Host Lattice. <i>Chemistry of Materials</i> , 1999, 11, 2173-2178.	3.2	33
10	Intercalation chemistry of layered vanadyl phosphate: a review. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012, 73, 33-53.	1.6	32
11	Conductivity in $AgAsS$ (Se, Te) chalcogenide glasses. <i>Solid State Ionics</i> , 2010, 181, 1625-1630.	1.3	30
12	Synthesis, structures, and properties of alkali and alkaline earth coordination polymers based on V-shaped ligand. <i>CrystEngComm</i> , 2012, 14, 6812.	1.3	29
13	Carbon nanotube-chalcogenide glass composite. <i>Journal of Solid State Chemistry</i> , 2010, 183, 144-149.	1.4	28
14	Direct-mixing assembly of a magnesium coordination complex as recyclable water adsorbent. <i>CrystEngComm</i> , 2010, 12, 1044-1047.	1.3	27
15	Synthesis and characterization of a novel one-dimensional iron phosphate: $[C_4H_{12}N_2]_{1.5}[Fe_2(OH)(H_2PO_4)(HPO_4)_2(PO_4)] \cdot 0.5H_2O$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 4109-4112.	1.1	26
16	Synthesis and characterization of new strontium 4-carboxyphenylphosphonates. <i>Journal of Solid State Chemistry</i> , 2007, 180, 929-939.	1.4	26
17	Redox intercalation reaction of crystalline $VOPO_4 \cdot 2H_2O$ with NaI solution in acetone. <i>Polyhedron</i> , 1993, 12, 181-185.	1.0	25
18	New strontium phenylphosphonate: synthesis and characterization. <i>Solid State Sciences</i> , 2006, 8, 1380-1385.	1.5	25

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19	Thermoanalytical Study, Phase Transitions, and Dimensional Changes of $\text{Zr}(\text{HPO}_4)_2 \cdot \text{H}_2\text{O}$ Large Crystals. <i>Journal of Solid State Chemistry</i> , 1997, 132, 17-23.	1.4	23
20	Glycine intercalated vanadyl and niobyl phosphates. <i>Solid State Ionics</i> , 1998, 106, 285-290.	1.3	23
21	Microwave-Assisted Intercalation of 1-Alkanols and 1,2-Alkanediols into $\text{Zr}(\text{HPO}_4)_2 \cdot \text{H}_2\text{O}$. Evidence of Conformational Phase Transitions in the Bimolecular Film of Alkyl Chains. <i>Langmuir</i> , 2002, 18, 1211-1217.	1.6	23
22	Synthesis and Characterization of $(\text{C}_4\text{H}_{12}\text{N}_2)_2[\text{Fe}_6(\text{HPO}_4)_2(\text{PO}_4)_6(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}$, a New Iron Phosphate Templated by Piperazine. <i>Journal of Solid State Chemistry</i> , 1998, 139, 326-331.	1.4	22
23	Properties and structure of $\text{Ag}_x(\text{As}_{0.33}\text{S}_{0.67})_{100-x}$ bulk glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1232-1237.	1.5	21
24	Ion conductive chalcogenide glasses in $\text{LiGa}_2\text{S}_3\text{GeS}_2$ system. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2223-2227.	1.5	21
25	Tg/dta, Xrd and NH_3 -TPD Characterization of Layered $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ and its Fe^{3+} -Substituted Compound. <i>Magyar Árvizsgáló és Vizsgáló Közlönyek</i> , 1998, 52, 615-630.	1.4	20
26	Synthesis and crystal structures of $(\text{NH}_3\text{CH}_2\text{CH}_2\text{NH}_3)_{1.5}[(\text{VO})_2(\text{HPO}_4)_2(\text{PO}_4)]$ and $(\text{C}_4\text{H}_{12}\text{N}_2)_2[\text{V}_4\text{O}_6\text{H}(\text{HPO}_4)_2(\text{PO}_4)_2]$, two layered vanadium phosphates templated with organic diamines. <i>Journal of Solid State Chemistry</i> , 2003, 172, 424-430.	1.4	20
27	Synthesis and characterization of new potential intercalation hosts – barium arylphosphonates. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1439-1443.	1.9	20
28	Intercalation of $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ with hydronium and potassium ions. <i>Solid State Ionics</i> , 1995, 82, 33-38.	1.3	19
29	Layered compounds derived from vanadyl phosphate dihydrate. <i>Materials Research Bulletin</i> , 1995, 30, 1115-1120.	2.7	19
30	Conductivity and permittivity study on silver and silver halide doped $\text{GeS}_2\text{Ga}_2\text{S}_3$ glassy system. <i>Solid State Ionics</i> , 2008, 179, 1867-1875.	1.3	19
31	Organization and intramolecular charge-transfer enhancement in tripodal tris[(pyridine-4-yl)phenyl]amine push-pull molecules by intercalation into layered materials bearing acidic functionalities. <i>Dalton Transactions</i> , 2014, 43, 10462-10470.	1.6	19
32	Intercalation of $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ with lithium ions. <i>Solid State Ionics</i> , 1994, 67, 277-280.	1.3	18
33	Thermomechanical and thermoelectrical properties of vanadyl phosphate dihydrate. <i>Materials Research Bulletin</i> , 1994, 29, 687-692.	2.7	17
34	Synthesis and Characterization of Vanadyl Phosphate Intercalated with Dioxane, Trioxane, and 18-Crown-6. <i>Chemistry of Materials</i> , 2002, 14, 2788-2795.	3.2	17
35	Electric properties and structure of $\text{Ag}_x(\text{As}_{0.33}\text{S}_{0.33}\text{Se}_{0.33})_{100-x}$ bulk glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 958-962.	1.9	17
36	Synthesis, Characterization, and Intercalation of Vanadyl Phosphate Modified with Manganese. <i>Journal of Solid State Chemistry</i> , 1995, 116, 400-405.	1.4	16

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37	Thermal, structural and acidic characterization of some vanadyl phosphate materials modified with trivalent metal cations. <i>Journal of Theoretical Biology</i> , 1997, 50, 355-364.	0.8	16
38	Assembly of a water-insoluble strontium metal-organic framework with luminescent properties. <i>Inorganic Chemistry Communication</i> , 2011, 14, 1602-1605.	1.8	16
39	Possible Mechanisms of Intercalation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1998, 31, 275-286.	1.6	15
40	Intercalates of Vanadyl and Niobyl Phosphates with C4 Diols. <i>Journal of Solid State Chemistry</i> , 2000, 151, 225-230.	1.4	15
41	Intercalation of Aldehydes into Vanadyl Phosphate. <i>Journal of Solid State Chemistry</i> , 2001, 157, 50-55.	1.4	15
42	2-Alkanol Intercalated VOPO ₄ and NbOPO ₄ : Structure Modeling of Intercalate Layers. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001, 40, 131-138.	1.6	15
43	Layered double hydroxide intercalated with p-methylbenzoate and p-bromobenzoate: Molecular simulations and XRD analysis. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 19-24.	5.0	15
44	Electrical-Transport Properties of Hydrated and Anhydrous Vanadyl Phosphate in the Temperature Range 20~200 °C. <i>Chemistry of Materials</i> , 1996, 8, 2505-2509.	3.2	14
45	Intercalation of Cyclic Ethers into Vanadyl Phosphate. <i>Chemistry - A European Journal</i> , 2002, 8, 1703-1709.	1.7	14
46	Intercalation of Ketones in Vanadyl Phosphate and Isostructural Hosts. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1975-1979.	1.0	13
47	New barium 4-carboxyphenylphosphonates: Synthesis, characterization and interconversions. <i>Solid State Sciences</i> , 2008, 10, 1533-1542.	1.5	13
48	Synthesis and characterization of copper 4-carboxyphenylphosphonates. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3155-3161.	1.4	12
49	Intumescent coatings based on an organic-inorganic hybrid resin and the effect of mineral fibres on fire-resistant properties of intumescent coatings. <i>Pigment and Resin Technology</i> , 2011, 40, 247-253.	0.5	12
50	Ion-Exchange Properties of Alkali-Metal Redox-Intercalated Vanadyl Phosphate. <i>Journal of Solid State Chemistry</i> , 2002, 163, 281-285.	1.4	11
51	Intercalation chemistry of zirconium 4-sulfophenylphosphonate. <i>Journal of Solid State Chemistry</i> , 2013, 208, 58-64.	1.4	11
52	Intercalation of 1-Alkanols and 1,2-Alkanediols into NbOPO ₄ and NbOAsO ₄ . <i>Journal of Solid State Chemistry</i> , 1998, 141, 64-69.	1.4	10
53	Intercalation Compounds of Vanadyl Phosphate Dihydrate with Rubidium Ion and Their Electrical Properties. <i>Chemistry of Materials</i> , 1999, 11, 3258-3262.	3.2	10
54	Intercalation of Dyes Containing SO ₃ H Groups into Zn-Al Layered Double Hydroxide. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005, 51, 97-101.	1.6	10

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55	Intercalation of Tartrazine Into ZnAl and MgAl Layered Double Hydroxides. Collection of Czechoslovak Chemical Communications, 2005, 70, 259-268.	1.0	10
56	Formation of a disordered layer lattice during the intercalation of water into anhydrous vanadyl phosphate. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1994, 20, 381-391.	1.6	9
57	Intercalation of β -Butyrolactone into Vanadyl Phosphate and Niobyl Arsenate. European Journal of Inorganic Chemistry, 2004, 2004, 570-574.	1.0	9
58	Relative ionization cross-sections of oxygenated C(4) molecules. International Journal of Mass Spectrometry and Ion Processes, 1990, 97, 117-124.	1.9	8
59	Kinetics and reaction products of the photo-induced solid state chemical reaction between silver and amorphous (As _{0.33} S _{0.67}) _{100-x} Te _x layers. Journal of Non-Crystalline Solids, 1996, 198-200, 744-748.	1.5	8
60	Intercalation behavior of calcium phenylphosphonate dihydrate CaC ₆ H ₅ PO ₃ ·2H ₂ O. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 66, 279-284.	1.6	8
61	New copper aryl phosphonates with auxiliary nitrogen ligands. CrystEngComm, 2012, 14, 3469.	1.3	8
62	Intercalates of Vanadyl Phosphate with Aliphatic Nitriles. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2002, 43, 95-99.	1.6	7
63	Vanadyl phosphate intercalated with dimethyl sulfoxide. Journal of Physics and Chemistry of Solids, 2006, 67, 956-960.	1.9	7
64	Structure analysis of hydrotalcite intercalated with pyrenetetrasulfonate; experiments and molecular modelling. Journal of Molecular Modeling, 2008, 14, 1119-1129.	0.8	7
65	Volumetric method for following the rate of intercalation of liquid molecular guests into layered hosts. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1993, 15, 71-78.	1.6	6
66	Intercalation of 1-Alkanol Binary Mixtures into the Layered Structure of Vanadyl Phosphate. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1999, 33, 391-402.	1.6	6
67	Intercalation of 1,2-alkanediols into Vanadyl and Niobyl Phosphate. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2000, 36, 301-309.	1.6	6
68	Intercalates of Vanadyl Phosphate with Dinitriles. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2003, 45, 235-239.	1.6	6
69	Preparation of ammonium intercalated vanadyl phosphate by redox intercalation and ion exchange. Journal of Solid State Chemistry, 2004, 177, 1173-1178.	1.4	6
70	Intercalation of aminonaphthalenes into \pm -zirconium hydrogenphosphate. Journal of Physics and Chemistry of Solids, 2007, 68, 803-807.	1.9	6
71	Study of microstructure in Ag _x (As _{0.33} Se _{0.67}) _{100-x} chalcogenide glasses. Journal of Non-Crystalline Solids, 2009, 355, 2054-2058.	1.5	6
72	Intercalation behavior of barium phenylphosphonate. Journal of Physics and Chemistry of Solids, 2010, 71, 530-533.	1.9	6

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73	Intercalates of Strontium Phenylphosphonate with Alcohols – Structure Analysis by Experimental and Molecular Modeling Methods. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 1552-1561.	1.0	6
74	Exfoliation of layered mixed zirconium 4-sulfophenylphosphonate phenylphosphonates. <i>Dalton Transactions</i> , 2020, 49, 3816-3823.	1.6	6
75	A kinetic study of the intercalation of ethanol into vanadyl phosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1996, 26, 311-319.	1.6	5
76	Electrical conductivity of $\text{Ag}_x(\text{As}_{40}\text{Se}_{60})_{100-x}$ bulk glasses. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 159-164.	1.5	5
77	Intercalation of 2-Naphthol-3,6-disulfonate, 9,10-Anthraquinone-2,6-disulfonate, and 9,10-Anthraquinone-2-sulfonate Anions into Zn^{2+}Al Layered Double Hydroxide. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005, 53, 41-46.	1.6	5
78	Strontium Methylphosphonate Trihydrate: An Example of a New Class of Host Materials for Intercalation Reactions – Synthesis, Structure and Intercalation Behavior. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 850-859.	1.0	5
79	Alkaline-earth metal phenylphosphonates and their intercalation chemistry. <i>Dalton Transactions</i> , 2018, 47, 2867-2880.	1.6	5
80	Formation of Layered Proton-Conducting Zirconium and Titanium Organophosphonates by Topotactic Reaction: Physicochemical Properties, Proton Dynamics, and Atomic-Resolution Structure. <i>Inorganic Chemistry</i> , 2020, 59, 505-513.	1.9	5
81	Intercalation of Anhydrous Vanadyl Phosphate with Aliphatic Alcohol Mixtures. <i>Collection of Czechoslovak Chemical Communications</i> , 1994, 59, 1616-1619.	1.0	4
82	Solid-state reactions of vanadium(v) phosphates in the presence of ammonia. <i>Journal of Materials Chemistry</i> , 1999, 9, 2523-2527.	6.7	4
83	A Kinetic Study of the Dehydration of $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ by Thermal Methods. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000, 36, 163-178.	1.6	4
84	Intercalation of cyclic ketones into vanadyl phosphate. <i>Journal of Solid State Chemistry</i> , 2005, 178, 314-320.	1.4	4
85	Structural Arrangement of $4\text{-}[(\text{Dimethylamino})\text{phenylazo}]\text{pyridine}$ Push–Pull Molecules in Acidic Layered Hosts Solved by Experimental and Calculation Methods. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 115-123.	1.0	4
86	Outerly functionalized and non-functionalized boron clusters intercalated into layered hydroxides with different modes of binding: materials for superacid storage. <i>Dalton Transactions</i> , 2018, 47, 11669-11679.	1.6	4
87	Intercalates of Vanadyl Phosphate with Benzonitrile and Tolunitrile. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 3662-3667.	1.0	3
88	Electrical conductivity of MOXO_4 ($\text{M}=\text{V}, \text{Nb}$; $\text{X}=\text{P}, \text{As}$) compounds intercalated with H_2O and H_3XO_4 . <i>Journal of Solid State Chemistry</i> , 2005, 178, 1778-1785.	1.4	3
89	Intercalation of esters into vanadyl phosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 765-769.	1.9	3
90	Alkaline-earth metal phosphonocarboxylates: synthesis, structures, chirality, and luminescence properties. <i>Dalton Transactions</i> , 2013, 42, 15332.	1.6	3

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91	Layered calcium phenylphosphonate: a hybrid material for a new generation of nanofillers. Beilstein Journal of Nanotechnology, 2018, 9, 2906-2915.	1.5	3
92	How Intercalated Sodium, Copper, and Iron Cations Influence the Structural Arrangement of Zirconium Sulfophenylphosphonate Layers? Theoretical and Experimental Points of View. Journal of Physical Chemistry C, 2019, 123, 2488-2495.	1.5	3
93	Intercalation of lactones into vanadyl phosphate. Journal of Physics and Chemistry of Solids, 2006, 67, 961-964.	1.9	2
94	Intercalation of Dimethyl Carbonate, Diethyl Carbonate and Ethylene Carbonate into Vanadyl Phosphate. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2006, 54, 271-274.	1.6	2
95	Thermal Behavior of Tetrahydropyran-Intercalated VOPO ₄ : Structural and Dynamics Study. European Journal of Inorganic Chemistry, 2007, 2007, 444-451.	1.0	2
96	Adsorption of Vapours of Some Organic Compounds on Surface of Iron-Substituted Layered Vanadyl Phosphate. Collection of Czechoslovak Chemical Communications, 2000, 65, 47-57.	1.0	2
97	Intercalation of Toluidines into $\hat{\pm}$ -Zirconium Hydrogenphosphate. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2006, 55, 289-293.	1.6	1
98	Intercalation of 1,2-Alkanediols into $\hat{\pm}$ -Zirconium Hydrogenphosphate. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 58, 95-101.	1.6	1
99	Title is missing!. Journal of Physics and Chemistry of Solids, 2007, 68, 673-674.	1.9	1
100	Protonic conductivity of polycrystalline materials evaluated with effective medium percolation approach: A case study on lithium-carboxylate based MOF. Solid State Ionics, 2016, 292, 98-102.	1.3	1
101	In situ high pressure phase transition of alcohol intercalated zirconium phosphate observed by synchrotron X-ray scattering. Journal of Physics and Chemistry of Solids, 2004, 65, 615-618.	1.9	0
102	Synthesis and characterization of new barium methylphosphonates. Dalton Transactions, 2017, 46, 5363-5372.	1.6	0
103	How N-(pyridin-4-yl)pyridin-4-amine and its methyl and nitro derivatives are arranged in the interlayer space of zirconium sulfophenylphosphonate: a problem solved by experimental and calculation methods. Journal of Computer-Aided Molecular Design, 2020, 34, 683-695.	1.3	0